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TECHNICAL REPORT

For The

Cargo Movement Operations System (CMOS)

Revised System Segment Specification
Increment II

STIC
LECTE

EB 12 1990

05 February 1990

Prepared under

Contract Number F11624-88-D-0001/6K12
CDRL #A004-19

Prepared for

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SECTION I

INTRODUCTION. Purpose of this Technical Report is to review the Revised System Segment Specification, Increment II, CDRL A001-04, which has been produced for the Government by Evaluation Research Corporation. The results are provided in the form of Data Item Discrepancy Worksheets as requested by the CMOS Program Office.

SUMMARY. Not Used.

CONCLUSION. Not Used.

SECTION II

RESULTS. SAIC's analysis is provided in the attached Data Item Discrepancy Worksheets. Editorial comments are listed first, followed by the substantive comments.

ORIGINATOR CONTROL NUMBER: SSS-0001
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: EDITORIAL: X

PAGE NUMBER: PARA. NUMBER:

COMMENT OR RECOMMENDED CHANGE:

All editorial comments for the Increment II Revised System Segment Specification have been collected on this worksheet and are arranged in page number order.

RATIONALE:

N/A

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION: ACCEPT [] REJECT []

COMMENT STATUS: OPEN [] CLOSED []

| Cmnt No. | Page No. | Paragraph Number | Comment |
|-------------|-------------|---------------------|--|
| 1. | 3 | 2.1.2.2 j. | Delete the hyphen in "maintain-ability". |
| 2. | 7 | 3.1.2 | Delete "UNIX-based" from the first line. This term should not be applied to hardware. |
| 3. | 13 | 3.1.3.2 | Change the title of this paragraph or paragraph 3.1.3.3, since they are two different ways of saying the same thing. |
| 4. | 15 | 3.1.4 | Change line 9 in the second column to read, "the sending activity will provide advanced shipping information to the enroute and final destination by classified message". |

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|-----|-------|-----------------|--|
| 5. | 18 | 3.2.1.1 | Change the words "off of" to "on" in line 19. |
| 6. | 19 | 3.2.1.1.1 b. | Change the word "minicomputer" to "TMO and System Administrator Workstation Down". This will make the terminology consistent in both increments. |
| 7. | 20 | 3.2.1.2.2 a.(2) | Change "functionality" to "functions" in the ninth line. |
| 8. | 21 | 3.2.1.2.3 | Add the word "software" after "Increment I" in the tenth line. |
| 9. | 22 | 3.2.1.2.7 | Delete the "/" between "alpha" and "numeric" in the fifth line of the second paragraph. |
| 10. | 24 | 3.2.1.2.9 | Change the word "in" to "is" in the third paragraph, line 6. |
| 11. | 26 | 3.2.1.2.9.1.4 | Change the word "ports" to "points" in line 6. |
| 12. | 26 | 3.2.1.2.9.1.4.2 | Change line 10 to read, "MCC PC workstations from which it can be relayed to the IMO". |
| 13. | 30 | 3.2.1.2.15 | Change "all direction indicated herein" to "operations" in the fourth line. |
| 14. | 31 | 3.2.3i & 1 | Delete TCACCIS since this interface is covered in subparagraph i. |
| 15. | 34 | 3.2.4.4.1 | Add the word "the" before "operator" in line 11. |
| 16. | 35 | 3.2.4.5.1 c.(5) | Add "1350 to 1400 MHz" to the frequency range. |
| 17. | 39-40 | 3.2.6 | Change "+ or" to "+/-" in the Frequency Tolerance paragraph and in the Voltage Disturbance paragraph. Add periods after the leading "a" and "b" in the Harmonic distortion paragraph and the leading "a", "b", and "c" in the Voltage Disturbance paragraph. |
| 18. | 40 | 3.2.8.1 | Change "TMO/Mobility Processor" to "TMO and System Administrator Workstation". |

- | | | | |
|-----|----|------------|--|
| 19. | 42 | 3.3.7 | Add an introductory word in line 5, such as "promote". |
| 20. | 49 | 6.1.1.2 b. | Change the word "executable" to "formatted" in the third line from the bottom. |

ORIGINATOR CONTROL NUMBER: SSS-0002
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 8

PARA NUMBER: Figure 3.1.2

COMMENT OR RECOMMENDED CHANGE:

Add an LGTX PC connected to the modem access unit (MAU).

RATIONALE:

The LGTX functions require connectivity to the CMOS LAN.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0003
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 9

PARA NUMBER: 3.1.2

COMMENT OR RECOMMENDED CHANGE:

Add, in the second paragraph, an LGTX PC to the list of additional Increment II computer resources.

RATIONALE:

LGTX requires a PC on the CMOS LAN.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0004
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 13

PARA NUMBER: Figure 3.1.3.2

COMMENT OR RECOMMENDED CHANGE:

Add an LGTX PC on the CMOS LAN.

RATIONALE:

The LGTX function requires a PC on the CMOS LAN.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0005
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 17

PARA NUMBER: 3.1.4.5

COMMENT OR RECOMMENDED CHANGE:

Delete the second sentence.

RATIONALE:

According to real-world requirements, LGTX requires a PC on the CMOS LAN.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0006
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Gerald T. Love

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 18

PARA NUMBER: 3.2.1.1.1

COMMENT OR RECOMMENDED CHANGE:

Replace the Restart and Recovery paragraph with the Restart and Recovery procedures in the Increment I SSS, paragraph 3.2.1.1.1.5.

RATIONALE:

The system capabilities for Increments I and II are the same. Therefore, the Restart and Recovery provisions should be identical.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0007
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 21

PARA NUMBER: 3.2.1.2.5

COMMENT OR RECOMMENDED CHANGE:

Delete the words "by air gap interface" in the third sentence.

RATIONALE:

LGTX requires connectivity to the CMOS LAN to build load plans during preplanning activities.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0008
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 27

PARA NUMBER: 3.2.1.2.11

COMMENT OR RECOMMENDED CHANGE:

Add the requirement for an LGTX PC on the CMOS LAN.

RATIONALE:

The LGTX function requires a PC on the CMOS LAN to perform unclassified data processing.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0009
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: Ronald J. Lacour

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 27

PARA NUMBER: 3.2.1.2.11.1

COMMENT OR RECOMMENDED CHANGE:

Rewrite this paragraph to reflect an LGTX non-TEMPEST PC on the CMOS LAN.

RATIONALE:

To effectively perform the intended functions described in this paragraph, the LGTX PC must be able to receive the COMPES data electronically, perform the functions described here, and then produce the various documentation during preplanning and execution.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0010
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: John J. Brassil

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 41

PARA NUMBER: 3.3.2

COMMENT OR RECOMMENDED CHANGE:

Add description of CMOS Radio Frequency (RF) usage by Hand Held Terminals.

RATIONALE:

This paragraph does not meet the requirements of DI-CMAN-8008A paragraph 10.1.5.3.2. Since the HHTs will generate electromagnetic radiation which is regulated by the FCC, those regulations and specific details of the radio frequencies used by CMOS should be described in this paragraph.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []

ORIGINATOR CONTROL NUMBER: SSS-0011
PROGRAM OFFICE CONTROL NUMBER:

DATA ITEM DISCREPANCY WORKSHEET

CDRL NUMBER: A001-04

DATE: 02/05/90

ORIGINATOR NAME: John J. Brassil

OFFICE SYMBOL: SAIC

TELEPHONE NUMBER: 272-2999

SUBSTANTIVE: X EDITORIAL:

PAGE NUMBER: 49

PARA NUMBER: 6

COMMENT OR RECOMMENDED CHANGE:

Add an alphabetical listing of acronyms, abbreviations, and their meanings.

RATIONALE:

Paragraph 10.1.8 of the DID requires this information.

CMOS PMO ACCEPTS COMMENT: YES [] NO []

ERCI ACCEPTS COMMENT: YES [] NO []

COMMENT DISPOSITION:

COMMENT STATUS: OPEN [] CLOSED []